

**Table 1: Sociodemographics and mobility data**

	Non-zero N, RDS-weighted statistic (missing)
N	2,839
<b>Sociodemographics</b>	
Age group	
40+	603: 21%
30-39	1,136: 40%
25-29	602: 22%
20-24	448: 16%
18-19	50: 2%
Education	
No formal education	881: 30% (1)
Primary	993: 35%
Secondary	964: 35%
Marital status	
Divorced	1,823: 64% (1)
Married	41: 1%
Widowed	552: 20%
Never married	422: 15%
Years in SW	
0-2	562: 19% (2)
3-6	1,048: 37%
7+	1,227: 44%
Children supported	2,376: 1, 1-2
Food insecure	1,175: 42%
Has cellphone	2,414: 86% (2)
Sex work only source of income	1,292: 46%
Living with HIV	1,671: 59%
>10 PHQ-9	484: 18% (4)
Experienced SW-stigma	2,238: 80% (5)
Violence in last month	637: 23% (21)
Substance misuse	780: 28% (2)
Social support available	1,536: 55% (10)
<b>Outcomes</b>	
Took part in community mobilisation	889: 32% (5)
Attended clinic two or more times	1,487: 53% (2)
Recently tested	757/1,168: 66%
Taking PrEP	122/755: 17%
Know living with HIV	1,342/1,660: 80% (11)
Taking ART	1,153/1,342: 86%
Viral suppression	974/1,153: 85%
<b>Exposures</b>	
Trips in 12 months	2,250: 2, 1-3 (50)
motivated by sex work	1,400: 2, 1-3 (50)
not motivated by sex work	1,704: 1, 1-2 (50)
where did not use healthcare	2,134: 2, 1-3 (51)
where used healthcare	473: 1, 1-1 (51)
Days away in 12 months	2,217: 28, 7-82 (50)
where worked in SW	1,576: 24, 7-78 (50)
where did not work in SW	1,493: 18, 4-28 (50)
near <i>Sisters</i> site	1,614: 21, 4-61 (50)
no <i>Sisters</i> site	1,515: 21, 4-61 (50)
outside Zimbabwe	497: 21, 4-61 (50)
inside Zimbabwe	2,084: 24, 7-68 (50)
in different linguistic area	359: 21, 4-61 (50)
in the same linguistic area	1,993: 24, 7-64 (50)
at mine, growthpoint, or farm	1,085: 21, 4-42 (51)
at a town or city	1,691: 21, 4-61 (51)
Distance travelled in 12 months	2,250: 679, 319-1,257 (50)

Table 1: Data are described by reporting the number of women with non-zero entries for each variable and RDS-II-weighted summary statistic (percentages for binary variables and the medians of the non-zero values with 25% and 75% weighted-percentiles for continuous variables). Missing data is shown in brackets, on first line only for factorial variables.

**Table 2: Prevalence of outcomes by levels of sociodemographic factors**

	<b>Took part in comm. mobilisation</b> N=2,725	<b>Attended clinic 2+ times</b> N=2,725	<b>Recently tested</b> N=1,121	<b>Taking PrEP</b> N=710	<b>Know living with HIV</b> N=1,604	<b>Taking ART</b> N=1,293	<b>Viral suppression</b> N=1,109
Age group							
40+	193/602: 32%	315/603: 53%	89/157: 57%	24/99: 24%	398/443: 90%	368/398: 91%	327/368: 89%
30-39	386/1,135: 34%	633/1,134: 56%	254/395: 64%	41/238: 17%	638/736: 86%	553/638: 87%	474/553: 86%
25-29	190/601: 32%	327/602: 57%	198/289: 71%	31/191: 19%	220/311: 72%	169/220: 76%	130/169: 78%
20-24	113/446: 26%	196/448: 43%	190/289: 68%	24/194: 13%	83/158: 49%	60/83: 75%	42/60: 72%
18-19	7/50: 13%	16/50: 30%	26/38: 67%	2/33: 8%	3/12: 27%	3/3: 100%	1/3: 22%
Education							
No formal education	269/880: 32%	453/881: 53%	205/311: 68%	39/223: 18%	496/568: 87%	424/496: 85%	378/424: 89%
Primary	303/992: 30%	523/992: 53%	263/391: 69%	39/250: 18%	463/594: 78%	408/463: 89%	340/408: 83%
Secondary	317/961: 33%	511/963: 54%	288/465: 63%	44/282: 16%	383/498: 76%	321/383: 83%	256/321: 82%
Marital status							
Divorced	572/1,819: 32%	973/1,822: 55%	513/773: 67%	78/504: 16%	833/1,044: 79%	690/833: 83%	577/690: 84%
Married	15/41: 31%	25/41: 58%	13/20: 64%	2/10: 29%	19/21: 87%	18/19: 94%	13/18: 64%
Widowed	170/551: 32%	292/551: 54%	82/141: 58%	22/96: 24%	349/406: 85%	324/349: 92%	285/324: 89%
Never married	131/422: 30%	196/422: 46%	149/234: 66%	20/145: 15%	140/188: 74%	121/140: 86%	99/121: 82%
Years in SW							
0-2	132/560: 25%	227/562: 41%	199/295: 70%	22/211: 12%	164/265: 61%	121/164: 74%	90/121: 76%
3-6	331/1,048: 32%	568/1,048: 55%	313/497: 65%	55/320: 18%	429/548: 77%	362/429: 84%	294/362: 81%
7+	426/1,224: 35%	690/1,225: 57%	244/375: 65%	45/224: 20%	748/846: 89%	669/748: 89%	589/669: 88%
Children supported							
None	122/439: 28%	220/439: 53%	112/182: 63%	14/130: 13%	197/257: 75%	166/197: 85%	137/166: 81%
>0	741/2,286: 33%	1,204/2,286: 53%	615/939: 67%	101/580: 18%	1,096/1,347: 81%	943/1,096: 86%	799/943: 85%
Food insecure							
No	508/1,596: 32%	835/1,596: 53%	439/676: 66%	69/436: 17%	707/920: 76%	608/707: 86%	506/608: 83%
Yes	355/1,129: 33%	589/1,129: 54%	288/445: 66%	46/274: 17%	586/684: 86%	501/586: 85%	430/501: 86%
Has cellphone							
No	103/410: 26%	170/410: 44%	117/191: 62%	14/120: 13%	169/219: 78%	135/169: 81%	117/135: 87%
Yes	760/2,315: 33%	1,254/2,315: 55%	610/930: 67%	101/590: 18%	1,124/1,385: 81%	974/1,124: 86%	819/974: 84%
Sex work only source of income							
No	497/1,489: 34%	805/1,489: 55%	414/639: 66%	85/444: 20%	692/850: 81%	591/692: 85%	500/591: 85%
Yes	366/1,236: 30%	619/1,236: 51%	313/482: 66%	30/266: 11%	601/754: 80%	518/601: 86%	436/518: 84%
Living with HIV							
No	342/1,121: 32%	550/1,121: 51%					
Yes	521/1,604: 32%	874/1,604: 55%					
>10 PHQ-9							
No	744/2,261: 33%	1,191/2,261: 54%	619/949: 66%	101/584: 18%	1,045/1,312: 79%	901/1,045: 86%	759/901: 85%
Yes	119/464: 26%	233/464: 51%	108/172: 65%	14/126: 12%	248/292: 84%	208/248: 84%	177/208: 85%
Experienced SW-stigma							
No	193/573: 34%	322/573: 57%	162/245: 68%	34/151: 22%	262/328: 78%	230/262: 87%	194/230: 83%
Yes	670/2,152: 32%	1,102/2,152: 52%	565/876: 65%	81/559: 15%	1,031/1,276: 81%	879/1,031: 85%	742/879: 85%
Violence in last month							
No	657/2,114: 32%	1,096/2,114: 53%	556/862: 66%	90/548: 16%	1,020/1,252: 81%	881/1,020: 86%	747/881: 85%
Yes	206/611: 34%	328/611: 55%	171/259: 67%	25/162: 18%	273/352: 77%	228/273: 84%	189/228: 83%
Substance misuse							
No	608/1,974: 31%	1,028/1,974: 53%	515/793: 66%	94/515: 19%	964/1,181: 81%	835/964: 86%	697/835: 83%
Yes	255/751: 36%	396/751: 53%	212/328: 65%	21/195: 12%	329/423: 79%	274/329: 84%	239/274: 88%
Social support available							
No	371/1,246: 30%	621/1,246: 52%	302/499: 61%	48/304: 17%	605/747: 81%	509/605: 84%	427/509: 83%
Yes	492/1,479: 34%	803/1,479: 54%	425/622: 70%	67/406: 17%	688/857: 79%	600/688: 87%	509/600: 86%

Table 2: For continuous exposures, the prevalence of the outcomes are reported for zero and non-zero levels of the continuous variables.

**Table 3: Prevalence of outcomes by levels of mobility exposures**

	Took part in comm. mobilisation N=2,725	Attended clinic 2+ times N=2,725	Recently tested N=1,121	Taking PrEP N=710	Know living with HIV N=1,604	Taking ART N=1,293	Viral supression N=1,109
<b>Trips in 12 months</b>							
None	147/524: 28%	259/524: 51%	125/195: 65%	20/128: 14%	271/329: 82%	240/271: 90%	198/240: 82%
>0	716/2,201: 33%	1,165/2,201: 54%	602/926: 66%	95/582: 17%	1,022/1,275: 80%	869/1,022: 85%	738/869: 85%
<b>motivated by sex work</b>							
None	397/1,355: 29%	638/1,355: 48%	341/533: 65%	60/362: 16%	670/822: 81%	579/670: 86%	488/579: 84%
>0	466/1,370: 35%	786/1,370: 58%	386/588: 67%	55/348: 18%	623/782: 80%	530/623: 85%	448/530: 85%
<b>not motivated by sex work</b>							
None	322/1,052: 31%	559/1,052: 55%	291/435: 69%	42/266: 16%	507/617: 82%	440/507: 87%	368/440: 84%
>0	541/1,673: 33%	865/1,673: 52%	436/686: 64%	73/444: 17%	786/987: 80%	669/786: 85%	568/669: 85%
<b>where did not use healthcare</b>							
None	185/637: 30%	319/637: 52%	146/229: 65%	26/148: 18%	342/408: 83%	300/342: 89%	251/300: 83%
>0	678/2,088: 33%	1,105/2,088: 54%	581/892: 66%	89/562: 17%	951/1,196: 79%	809/951: 84%	685/809: 85%
<b>where used healthcare</b>							
None	680/2,257: 30%	1,163/2,257: 52%	604/942: 65%	91/593: 16%	1,059/1,315: 80%	907/1,059: 85%	762/907: 84%
>0	183/468: 40%	261/468: 58%	123/179: 69%	24/117: 22%	234/289: 80%	202/234: 87%	174/202: 86%
<b>Days away in 12 months</b>							
None	156/557: 28%	274/557: 50%	136/212: 65%	20/141: 13%	282/345: 82%	248/282: 89%	205/248: 82%
>0	707/2,168: 33%	1,150/2,168: 54%	591/909: 66%	95/569: 18%	1,011/1,259: 80%	861/1,011: 85%	731/861: 85%
<b>where worked in SW</b>							
None	338/1,182: 29%	558/1,182: 48%	307/471: 66%	48/318: 14%	572/711: 80%	499/572: 87%	419/499: 84%
>0	525/1,543: 34%	866/1,543: 57%	420/650: 66%	67/392: 19%	721/893: 81%	610/721: 84%	517/610: 85%
<b>where did not work in SW</b>							
None	399/1,262: 32%	662/1,262: 54%	355/528: 69%	54/330: 17%	606/734: 82%	520/606: 86%	439/520: 85%
>0	464/1,463: 32%	762/1,463: 53%	372/593: 63%	61/380: 17%	687/870: 79%	589/687: 85%	497/589: 85%
<b>near <i>Sisters</i> site</b>							
None	324/1,143: 29%	557/1,143: 50%	286/442: 65%	40/283: 13%	577/701: 82%	501/577: 87%	414/501: 83%
>0	539/1,582: 34%	867/1,582: 56%	441/679: 67%	75/427: 19%	716/903: 79%	608/716: 84%	522/608: 86%
<b>no <i>Sisters</i> site</b>							
None	369/1,241: 30%	635/1,241: 53%	331/517: 65%	64/342: 20%	583/724: 80%	506/583: 87%	429/506: 84%
>0	494/1,484: 34%	789/1,484: 54%	396/604: 67%	51/368: 14%	710/880: 81%	603/710: 85%	507/603: 85%
<b>outside Zimbabwe</b>							
None	660/2,231: 30%	1,122/2,231: 51%	602/917: 67%	94/585: 16%	1,061/1,314: 81%	904/1,061: 85%	756/904: 84%
>0	203/494: 41%	302/494: 62%	125/204: 62%	21/125: 19%	232/290: 79%	205/232: 88%	180/205: 89%
<b>inside Zimbabwe</b>							
None	206/688: 30%	348/688: 52%	173/270: 66%	25/173: 14%	343/418: 82%	300/343: 88%	246/300: 82%
>0	657/2,037: 33%	1,076/2,037: 54%	554/851: 66%	90/537: 18%	950/1,186: 80%	809/950: 85%	690/809: 85%
<b>in different linguistic area</b>							
None	736/2,373: 31%	1,235/2,373: 53%	634/968: 67%	100/594: 17%	1,140/1,405: 81%	984/1,140: 86%	829/984: 84%
>0	127/352: 37%	189/352: 54%	93/153: 61%	15/116: 14%	153/199: 77%	125/153: 81%	107/125: 86%
<b>in the same linguistic area</b>							
None	241/779: 31%	395/779: 52%	196/309: 65%	30/204: 15%	384/470: 82%	334/384: 87%	277/334: 83%
>0	622/1,946: 32%	1,029/1,946: 54%	531/812: 66%	85/506: 17%	909/1,134: 80%	775/909: 85%	659/775: 85%
<b>at mine, growthpoint, or farm</b>							
None	511/1,658: 31%	844/1,658: 52%	437/690: 64%	78/456: 18%	774/968: 79%	670/774: 87%	570/670: 85%
>0	352/1,066: 34%	579/1,066: 55%	290/431: 69%	37/254: 15%	518/635: 82%	438/518: 84%	365/438: 84%
<b>at a town or city</b>							
None	297/1,070: 28%	537/1,070: 52%	269/415: 66%	38/269: 13%	536/655: 82%	457/536: 86%	378/457: 83%
>0	566/1,654: 35%	886/1,654: 54%	458/706: 66%	77/441: 19%	756/948: 79%	651/756: 86%	557/651: 86%
<b>Distance travelled in 12 months</b>							
None	147/524: 28%	259/524: 51%	125/195: 65%	20/128: 14%	271/329: 82%	240/271: 90%	198/240: 82%
>0	716/2,201: 33%	1,165/2,201: 54%	602/926: 66%	95/582: 17%	1,022/1,275: 80%	869/1,022: 85%	738/869: 85%

Table 3: For continuous exposures, the prevalence of the outcomes are reported for zero and non-zero levels of the continuous variables.

Table 4: Effects of sociodemographic factors and mobility

	Took part in comm. mobilisation N=2,725	Attended clinic 2+ times N=2,725	Recently tested N=1,121	Taking PrEP N=710	Know living with HIV N=1,604	Taking ART N=1,293	Viral suppression N=1,109
Age group							
40+	(base)	(base)	(base)	(base)	(base)	(base)	(base)
30-39	1.08 (0.92 to 1.28)	1.12 (1.00 to 1.25)	1.28 (1.07 to 1.54)	0.82 (0.50 to 1.34)	0.96 (0.91 to 1.01)	0.93 (0.89 to 0.98)	0.96 (0.91 to 1.01)
25-29	0.99 (0.81 to 1.20)	1.02 (0.89 to 1.16)	1.34 (1.11 to 1.62)	0.73 (0.42 to 1.27)	0.76 (0.68 to 0.84)	0.84 (0.77 to 0.91)	0.87 (0.79 to 0.95)
20-24	0.78 (0.62 to 0.98)	0.90 (0.78 to 1.05)	1.24 (1.02 to 1.50)	0.65 (0.35 to 1.20)	0.61 (0.52 to 0.72)	0.72 (0.60 to 0.87)	0.74 (0.60 to 0.91)
18-19	0.49 (0.24 to 1.02)	0.69 (0.43 to 1.11)	1.42 (1.04 to 1.95)	0.19 (0.03 to 1.42)	0.25 (0.09 to 0.73)	1.03 (0.96 to 1.11)	0.52 (0.13 to 2.02)
Education							
No formal education	(base)	(base)	(base)	(base)	(base)	(base)	(base)
Primary	0.97 (0.82 to 1.14)	1.04 (0.94 to 1.16)	1.00 (0.88 to 1.15)	1.07 (0.65 to 1.76)	0.92 (0.87 to 0.98)	1.04 (0.99 to 1.10)	0.95 (0.90 to 1.02)
Secondary	1.10 (0.94 to 1.29)	1.01 (0.90 to 1.12)	0.90 (0.79 to 1.03)	1.08 (0.65 to 1.79)	0.90 (0.83 to 0.96)	1.00 (0.94 to 1.07)	0.93 (0.87 to 1.00)
Marital status							
Divorced	(base)	(base)	(base)	(base)	(base)	(base)	(base)
Married	0.92 (0.50 to 1.66)	1.20 (0.89 to 1.62)	1.06 (0.73 to 1.54)	1.09 (0.27 to 4.46)	1.15 (0.95 to 1.38)	1.18 (0.99 to 1.42)	0.76 (0.49 to 1.17)
Widowed	0.98 (0.82 to 1.18)	0.98 (0.87 to 1.10)	0.96 (0.80 to 1.15)	0.87 (0.52 to 1.48)	0.98 (0.92 to 1.04)	1.07 (1.02 to 1.12)	0.99 (0.93 to 1.05)
Never married	0.97 (0.80 to 1.17)	0.85 (0.74 to 0.97)	0.94 (0.82 to 1.07)	0.84 (0.50 to 1.40)	0.93 (0.83 to 1.04)	1.04 (0.94 to 1.15)	1.00 (0.91 to 1.09)
Years in SW							
0-2	(base)	(base)	(base)	(base)	(base)	(base)	(base)
3-6	1.42 (1.16 to 1.73)	1.34 (1.17 to 1.54)	0.93 (0.83 to 1.06)	1.70 (0.99 to 2.92)	1.29 (1.13 to 1.47)	1.19 (1.05 to 1.35)	1.17 (1.02 to 1.36)
7+	1.49 (1.21 to 1.85)	1.39 (1.20 to 1.61)	1.05 (0.91 to 1.22)	1.66 (0.91 to 3.05)	1.32 (1.16 to 1.50)	1.23 (1.09 to 1.38)	1.21 (1.05 to 1.40)
Children supported	1.11 (1.03 to 1.20)	1.03 (0.97 to 1.08)	1.08 (1.01 to 1.15)	1.09 (0.88 to 1.35)	1.01 (0.97 to 1.04)	1.01 (0.98 to 1.04)	0.99 (0.96 to 1.03)
Food insecure	0.99 (0.87 to 1.12)	0.99 (0.90 to 1.07)	1.00 (0.91 to 1.11)	0.96 (0.66 to 1.38)	1.07 (1.01 to 1.13)	0.96 (0.91 to 1.01)	1.00 (0.95 to 1.06)
Has cellphone	1.26 (1.04 to 1.53)	1.32 (1.16 to 1.51)	1.08 (0.93 to 1.24)	1.62 (0.96 to 2.71)	1.03 (0.94 to 1.12)	1.10 (1.00 to 1.20)	0.96 (0.90 to 1.03)
Sex work only source of income	0.98 (0.86 to 1.12)	0.97 (0.89 to 1.06)	1.00 (0.90 to 1.12)	0.72 (0.46 to 1.14)	1.01 (0.95 to 1.07)	1.01 (0.96 to 1.06)	1.01 (0.95 to 1.06)
Living with HIV	1.17 (1.03 to 1.34)	1.20 (1.09 to 1.31)					
>10 PHQ-9	0.76 (0.63 to 0.93)	1.00 (0.90 to 1.13)	0.98 (0.85 to 1.12)	0.59 (0.34 to 1.02)	1.08 (1.01 to 1.15)	0.94 (0.88 to 1.01)	1.01 (0.95 to 1.09)
Experienced SW-stigma	0.97 (0.83 to 1.13)	0.95 (0.86 to 1.05)	0.99 (0.88 to 1.12)	0.62 (0.43 to 0.90)	1.01 (0.95 to 1.09)	0.98 (0.92 to 1.04)	1.01 (0.94 to 1.07)
Violence in last month	1.14 (0.98 to 1.32)	1.02 (0.92 to 1.13)	0.99 (0.87 to 1.12)	0.89 (0.58 to 1.36)	0.98 (0.92 to 1.06)	0.96 (0.90 to 1.03)	1.00 (0.93 to 1.07)
Substance misuse	1.11 (0.96 to 1.27)	1.04 (0.95 to 1.15)	0.99 (0.88 to 1.10)	0.52 (0.32 to 0.86)	0.96 (0.90 to 1.03)	0.96 (0.90 to 1.03)	1.03 (0.97 to 1.10)
Social support available	1.16 (1.02 to 1.33)	1.11 (1.02 to 1.21)	1.11 (1.00 to 1.23)	1.02 (0.70 to 1.48)	0.99 (0.93 to 1.05)	1.03 (0.98 to 1.08)	1.02 (0.96 to 1.07)
Trips in 12 months	1.08 (1.04 to 1.12)	1.02 (1.00 to 1.05)	1.00 (0.97 to 1.03)	0.97 (0.87 to 1.09)	0.99 (0.97 to 1.01)	1.00 (0.98 to 1.01)	1.00 (0.98 to 1.02)
motivated by sex work	1.09 (1.04 to 1.14)	1.04 (1.01 to 1.08)	1.01 (0.97 to 1.05)	0.95 (0.81 to 1.11)	0.99 (0.97 to 1.02)	1.00 (0.98 to 1.03)	0.99 (0.96 to 1.02)
not motivated by sex work	1.06 (1.00 to 1.12)	1.00 (0.96 to 1.04)	0.99 (0.94 to 1.03)	1.00 (0.86 to 1.18)	0.98 (0.96 to 1.01)	0.99 (0.97 to 1.01)	1.02 (0.99 to 1.04)
where did not use healthcare	1.07 (1.03 to 1.11)	1.02 (1.00 to 1.05)	0.99 (0.96 to 1.02)	0.95 (0.84 to 1.07)	0.99 (0.97 to 1.00)	1.00 (0.98 to 1.01)	1.00 (0.98 to 1.02)
where used healthcare	1.18 (1.06 to 1.30)	1.04 (0.97 to 1.12)	1.06 (0.97 to 1.16)	1.24 (0.92 to 1.68)	1.03 (0.97 to 1.08)	1.01 (0.96 to 1.06)	1.01 (0.96 to 1.07)
Days away in 12 months	0.99 (0.97 to 1.02)	0.99 (0.97 to 1.01)	0.98 (0.95 to 1.01)	0.95 (0.87 to 1.04)	1.00 (0.99 to 1.02)	1.00 (0.99 to 1.01)	1.00 (0.98 to 1.01)
where worked in SW	0.99 (0.96 to 1.02)	1.00 (0.98 to 1.02)	0.98 (0.95 to 1.02)	0.98 (0.90 to 1.08)	1.01 (1.00 to 1.02)	1.00 (0.99 to 1.01)	0.99 (0.98 to 1.01)
where did not work in SW	0.98 (0.93 to 1.04)	0.96 (0.92 to 1.01)	0.96 (0.91 to 1.01)	0.85 (0.71 to 1.02)	0.98 (0.96 to 1.01)	0.99 (0.97 to 1.02)	1.00 (0.98 to 1.03)
near Sisters site	0.99 (0.95 to 1.02)	0.99 (0.96 to 1.01)	0.97 (0.93 to 1.01)	0.94 (0.84 to 1.05)	1.00 (0.98 to 1.02)	0.99 (0.97 to 1.01)	1.01 (0.99 to 1.02)
no Sisters site	0.99 (0.96 to 1.03)	0.99 (0.96 to 1.02)	0.99 (0.96 to 1.03)	0.96 (0.83 to 1.11)	1.00 (0.99 to 1.02)	1.01 (1.00 to 1.02)	0.99 (0.96 to 1.01)
outside Zimbabwe	0.99 (0.93 to 1.05)	0.98 (0.94 to 1.02)	0.96 (0.89 to 1.04)	0.97 (0.81 to 1.16)	1.00 (0.97 to 1.03)	1.02 (1.00 to 1.03)	0.98 (0.93 to 1.02)
inside Zimbabwe	0.99 (0.96 to 1.02)	0.99 (0.97 to 1.01)	0.98 (0.96 to 1.01)	0.95 (0.86 to 1.05)	1.00 (0.99 to 1.02)	0.99 (0.98 to 1.01)	1.00 (0.99 to 1.01)
in different linguistic area	0.99 (0.92 to 1.06)	1.01 (0.97 to 1.06)	0.96 (0.88 to 1.04)	0.91 (0.69 to 1.22)	1.02 (0.99 to 1.06)	0.98 (0.93 to 1.04)	1.02 (1.01 to 1.04)
in the same linguistic area	0.99 (0.96 to 1.02)	0.99 (0.97 to 1.01)	0.98 (0.96 to 1.01)	0.95 (0.86 to 1.05)	1.00 (0.99 to 1.01)	1.00 (0.98 to 1.01)	1.00 (0.98 to 1.01)
at mine, growthpoint, or farm	0.99 (0.93 to 1.04)	1.00 (0.97 to 1.04)	1.00 (0.94 to 1.05)	0.89 (0.72 to 1.11)	1.00 (0.97 to 1.04)	0.99 (0.96 to 1.02)	1.00 (0.97 to 1.02)
at a town or city	0.99 (0.95 to 1.02)	0.98 (0.96 to 1.01)	0.96 (0.92 to 0.99)	0.93 (0.84 to 1.04)	1.00 (0.99 to 1.02)	1.00 (0.99 to 1.01)	1.01 (0.99 to 1.02)
Distance travelled in 12 months	1.01 (1.01 to 1.02)	1.00 (1.00 to 1.01)	1.00 (0.99 to 1.00)	0.99 (0.98 to 1.01)	1.00 (0.99 to 1.00)	1.00 (1.00 to 1.00)	1.00 (1.00 to 1.00)

Table 4: Risk ratios for outcomes by levels of sociodemographic factors adjusted for age, and mobility exposures adjusted for all sociodemographic factors. For the days away exposures, the effects have been scaled to show the effect of each additional 30 days away; the effect of distance travelled have been scaled to show the effect of each additional 100km travelled.

Table 5: Mediation analysis

		Direct and indirect effects Adjusted risk ratio (95% CI)
Took part in community mobilisation	$ARR_{A \rightarrow Y}$	1.07 (1.01, 1.12)
	$ARR_{A \rightarrow M_1 Y}$	1.03 (0.98, 1.07)
	$ARR_{A \rightarrow M_2 \rightarrow Y}$	1.01 (0.99, 1.04)
Attended clinic two or more times	$ARR_{A \rightarrow Y}$	1.02 (0.98, 1.06)
	$ARR_{A \rightarrow M_1 Y}$	1.02 (0.99, 1.05)
	$ARR_{A \rightarrow M_2 \rightarrow Y}$	1.01 (0.99, 1.03)
Recently tested	$ARR_{A \rightarrow Y}$	1.00 (0.95, 1.05)
	$ARR_{A \rightarrow M_1 Y}$	1.00 (0.97, 1.04)
	$ARR_{A \rightarrow M_2 \rightarrow Y}$	0.99 (0.97, 1.02)
Taking PrEP	$ARR_{A \rightarrow Y}$	0.92 (0.76, 1.13)
	$ARR_{A \rightarrow M_1 Y}$	1.02 (0.91, 1.13)
	$ARR_{A \rightarrow M_2 \rightarrow Y}$	0.98 (0.89, 1.07)
Know living with HIV	$ARR_{A \rightarrow Y}$	1.00 (0.97, 1.03)
	$ARR_{A \rightarrow M_1 Y}$	0.99 (0.98, 1.01)
	$ARR_{A \rightarrow M_2 \rightarrow Y}$	1.00 (0.99, 1.01)
Taking ART	$ARR_{A \rightarrow Y}$	1.01 (0.99, 1.03)
	$ARR_{A \rightarrow M_1 Y}$	1.00 (0.98, 1.02)
	$ARR_{A \rightarrow M_2 \rightarrow Y}$	1.00 (0.99, 1.01)
Viral supression	$ARR_{A \rightarrow Y}$	1.01 (0.97, 1.04)
	$ARR_{A \rightarrow M_1 Y}$	1.00 (0.98, 1.03)
	$ARR_{A \rightarrow M_2 \rightarrow Y}$	1.00 (0.99, 1.02)

Table 5: Mediation analysis restricted to the 2,201 women with complete data who travelled at least once in the previous 12 months.  $M_1$  is the natural log of the distance, and  $M_2$  is the total duration of time spent away.